The Rattle Package: Quick Start Guide

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1 Introduction

Rattle (Williams, 2011) is a package written in R providing a graphical user interface to very many other R packages that provide functionality for data science, data mining, machine learning and AI.

This quick start guide is under development. See https://togaware.com/projects/rattle/ for extensive documentation

2 Requirements

Rattle depends on over 40 other R packages and a couple of other software applications/libraries that are independent of R. Rattle V6 implements the user interface using the Flutter cross platform framework. Operating system specific installation instructions are available from https://togaware.com/projects/rattle/.

Only a couple of R packages are dependencies for Rattle. Most are suggestions, but without them functionality is quite limited. You might like to install the following pacakges: ada, arules, doBy, ellipse, fBasics, fpc, gplots, Hmisc, kernlab, mice, party, playwith, pmml, randomForest, reshape, rggobi, RGtk2, ROCR, RODBC, and rpart.

The packages will usually be installed with the following command:

```
> install.packages("rattle", dependencies=c("Depends", "Suggests"))
```

The latest version of rattle is available from https://togaware.com/projects/rattle/:

```
> install.packages("rattle", repos="https://rattle.togaware.com", type="source")
```

3   First Steps

Start up rattle from the Rattle icon or else in a terminal at the OS command prompt type 'rattle'.

4   Simple Scenario: Build a Couple of Models

1. Tap Dataset

2. Tap Weather (to load the sample weather dataset)

3. Tap the Model function

4. Tap the Tree feature

5. Tap the Build Decision Tree button

6. Tap the Right Arrow to display the decision tree

7. Tap the Forest feature

8. Tap the Build Random Forest button

9. Tap the Evaluate function

10. Tap the Evaluate button

11. Tap the Right Arrown to display the performance plots and measures

12. Tap the Script feature

13. Tap the Save button to save the script to the file script_weather.R

Now separately start up R from a terminal and type (matching the filename as saved).

```
> source("~/script_weather.R")
```

This will rerun everything that was done in the GUI session but purely as a script.

5   References

Williams, G. J. (2009). *Rattle: A Data Mining GUI for R.* The R Journal, 1(2), 45-55. URL: journal.r-project.org/news/RJ-2009-2-RJournal_2009-2_Williams/RJ-2009-2-RJournal_2009-2_Williams.pdf

Williams, G. J. (2011). *Data Mining with Rattle and R: The Art of Excavating Data for Knowledge Discovery.* Use R! series. Springer.